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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

24247 75'	90 08/27/2003			EXAMI	NER
TRASK BRITT P.O. BOX 2550				CLARK, S.	HEILA V
SALT LAKE CITY	, UT 84110			ART UNIT	CLASS-SUBCLASS
				2815	257-701000
				DATE MAILED: 08/27/2003	3
	THE PLANE OF THE PARTY OF THE P	FIRST NAME	DINVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO. 09/874,631	6/05/2001		e Moor	4368US (99-0959)	5108
TITLE OF INVENTION: F		RAY CHIP SCALE PACKAGE			
	The state of the s	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
APPLN. TYPE nonprovisional	SMALL ENTITY NO	\$20	\$0	\$20	11/28/2003
HOHDIOVISIONAL					

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE
Commissioner for Patents Alexandria, Virginia 22313-1450 or Fax (703) 746-4000

• 2			(.	TOY FEE (C	d) Disales I through A sh	ould be completed where
NSTRUCTIONS: This for appropriate. All further corrudicated unless corrected b	m should be used for transr espondence including the Pa elow or directed otherwise i	nitting the ISSUE : atent, advance order n Block 1, by (a) s	FEE and PUBLICA's and notification of pecifying a new corr	maintenance fees vespondence address;	ired). Blocks 1 through 4 sh vill be mailed to the current and/or (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE 24247 75	E ADDRESS (Note: Legibly mark-up		Block 1) N Fe	ote: A certificate of	mailing can only be used fo is certificate cannot be used fo al paper, such as an assignme e of mailing or transmission.	- domestic mailings of the
TRASK BRITT P.O. BOX 2550 SALT LAKE CITY	, UT 84110		I i	Centereby certify that the lates Postal Service of the Market to the Market Postal Service of the Marke	rtificate of Mailing or Trans his Fee(s) Transmittal is being with sufficient postage for fire il Ston ISSUE FEE address	g deposited with the United at class mail in an envelope above, or being facsimile
	•		tr.	ansmitted to the USI	TO, on the date indicated belo	(Depositor's name)
			<u> -</u>			(Signature)
			F			(Date)
		PIL	RST NAMED INVENTO)R	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO. 09/874,631	FILING DATE 06/05/2001	FII	Ow Chee Moon		4368US (99-0959)	5108
TITLE OF INVENTION: FI	LEXIBLE BALL GRID ARR	AAY CHIP SCALE I	PACKAGES			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUE	LICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$20		\$0	\$20	11/28/2003
EYAN	AINER	ART UNIT	CLA	SS-SUBCLASS	7	
	SHEILA V	2815		257-701000	-	
Address form PTO/SB/1 "Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required.	ion (or "Fee Address" Indicat or more recent) attached. Use D RESIDENCE DATA TO B s an assignee is identified be ed to the USPTO or is being s	ion form e of a Customer E PRINTED ON THe low, no assignee dat submitted under sepa	names of up to 3 agents OR, alternat firm (having as a 1 agent) and the nan attorneys or agents will be printed. HE PATENT (print or ta will appear on the arate cover. Completi RESIDENCE: (CITY	ively, (2) the name nember a registered sees of up to 2 regis. If no name is list type) patent. Inclusion of on of this form is NO and STATE OR CO	assignee data is only appropr of a sungle assignee data is only appropr of a substitute for filing an as	
Please check the appropriat	te assignee category or catego			individual C	corporation or other private a	group entity governmer
4a. The following fee(s) are	e enclosed:		Payment of Fee(s): A check in the amount	ount of the fee(s) is e	enclosed.	
☐ Issue Fee ☐ Publication Fee		1	Payment by credit	card. Form PTO-203	38 is attached.	•
Advance Order - # o	f Copies		☐ The Director is he	reby authorized by	shows the required fee(s) o	r credit any overpayment, t copy of this form).
Director for Patents is requ	nested to apply the Issue Fee a		Deposit Account Nur (if any) or to re-apply		l issue fee to the application in	
(Authorized Signature)		(Date)				
other than the applicant interest as shown by the This collection of inform obtain or retain a benefi application. Confidential estimated to take 12 mir completed application for case. Any comments o	nd Publication Fee (if required a registered attorney or a records of the United States Plantion is required by 37 CFI at by the public which is to tity is governed by 35 U.S.C. tutes to complete, including sorm to the USPTO. Time we the amount of time you this burden, should be sent	atent and Trademarl R 1.311. The inform file (and by the US 122 and 37 CFR 1.1 gathering, preparing ill vary depending require to complet	k Office. action is required to PTO to process) an 4. This collection is, and submitting the upon the individual te this form and/or action Officer. I/S			
ratent and trademark 22313-1450. DO NOT SEND TO: Commission	g this burden, should be sent Office, U.S. Department SEND FEES OR COMPL er for Patents, Alexandria, Vi	ETED FORMS TO rginia 22313-1450.	THIS ADDRESS.			

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.upplo.gov

	T T	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE	THOI WINDS IN DAY	12 (07 (02 00 60)	5108
09/874,631	06/05/2001	Ow Chee Moon	4368US (99-0959)	
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24247	7590 08/27/2003		CLARK, S	SHEILA V
TRASK BRITT			CDI IIII,	
P.O. BOX 2550			ART UNIT	PAPER NUMBER
SALT LAKE CIT	Y, UT 84110		2015	
		•	2815	
			DATE MAILED: 08/27/200	13

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 297 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 297 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/874,631	06/05/2001	Ow Chee Moon	4368US (99-0959)	5108	
,		EXAM	EXAMINER		
24247 7590 08/27/2003 TRASK BRITT P.O. BOX 2550 SALT LAKE CITY, UT 84110			CLARK, SHEILA V		
			ART UNIT	PAPER NUMBER	
			2815		
			DATE MAILED: 08/27/200	3	

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No.	Applicant

09/874,631

Moon et al

Examiner

Notice of Allowability

Sheila V.Clark

Art Unit 2815



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The MAILING DATE of this communication appears on the co	ver sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAIN or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. The initiative of the Office or upon petition by the applicant. See 37 CFR 1	This application is subject to withdrawal from issue at .313 and MPEP 1308.
1. X This communication is responsive to the communication filed 7-	11-03
2. X The allowed claim(s) is/are <u>1-33, 35, 36, 38-42, 52, and 53</u>	<u> </u>
3. X The drawings filed on are accepted by the	ne Examiner.
4. 💢 Acknowledgement is made of a claim for foreign priority under	35 U.S.C. § 119(a)-(d).
a) ☒ All b) ☐ Some* c) ☐ None of the:	
1 X Certified copies of the priority documents have been rece	sived.
2 Certified copies of the priority documents have been rece	eived in Application No
3. Copies of the certified copies of the priority documents he application from the International Bureau (PCT Rule 17	ave been received in this national stage 7.2(a)).
*Certified copies not received:	
5. Acknowledgement is made of a claim for domestic priority und	er 35 U.S.C. § 119(e) (to a provisional application).
(a) The translation of the foreign language provisional application	on has been received.
6. \square Acknowledgement is made of a claim for domestic priority und	er 35 U.S.C. §§ 120 and/or 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this commoted below. Failure to timely comply will result in ABANDONMENT of the EXTENDABLE.	по арриомного
 A SUBSTITUTE OATH OR DECLARATION must be submitted. Note INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. CORRECTED DRAWINGS must be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's	Patent Drawing Review (PTO-948) attached
4) Thereto or 2) The Paper No.	
(b) ☐ including changes required by the proposed drawing correct approved by the examiner.	
(c) including changes required by the attached Examiner's Am	
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be such sheet. The drawings should be filed as a separate paper with a transm	ld be written on the drawings in the top margin (not the back) littal letter addressed to the Official Draftsperson.
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLO attached Examiner's comment regarding REQUIREMENT FOR 1	OGICAL MATERIAL must be submitted. Note the THE DEPOSIT OF BIOLOGICAL MATERIAL.
Attachment(s)	2 Notice of Informal Patent Application (PTO-152)
1 Notice of References Cited (PTO-892)	4 Interview Summary (PTO-413), Paper No
3 Notice of Draftsperson's Patent Drawing Review (PTO-948)	6 X Examiner's Amendment/Comment
5 [X] Information Disclosure Statements, 17 or Persent for Denocit of Biological	8 Examiner's Statement of Reasons of Allowing
7 Li Examiner's Comment Regarding Requirement for Deposit of Dislogues. Material	/Kn/, W/
9 Other	/ // // / //